

**What is claimed is:**

1. A production method for a solid electrolytic capacitor which includes a capacitor element (2) including an anode coated with a dielectric oxide film, and an electrically conductive polymer layer provided therein, the method comprising the steps of:

mixing at least one of a metal salt of an alkoxybenzenesulfonic acid and a metal salt of an alkylsulfonic acid as an oxidizing agent and an electrically conductive polymer in a solvent; and

immersing the capacitor element (2) in the resulting mixture solution, and forming the electrically conductive polymer layer in the capacitor element (2) by thermal polymerization.

2. A solid electrolytic capacitor production method as set forth in claim 1, wherein a metal for the metal salt is a transition metal selected from the group consisting of iron(III), copper, chromium, cerium, manganese and zinc.

3. A solid electrolytic capacitor production method as set forth in claim 1, wherein the oxidizing agent is a mixture of at least one metal alkoxybenzenesulfonate and at least one metal alkylsulfonate.